Name: HW86­\_Pythagorean Theorem (Form A)

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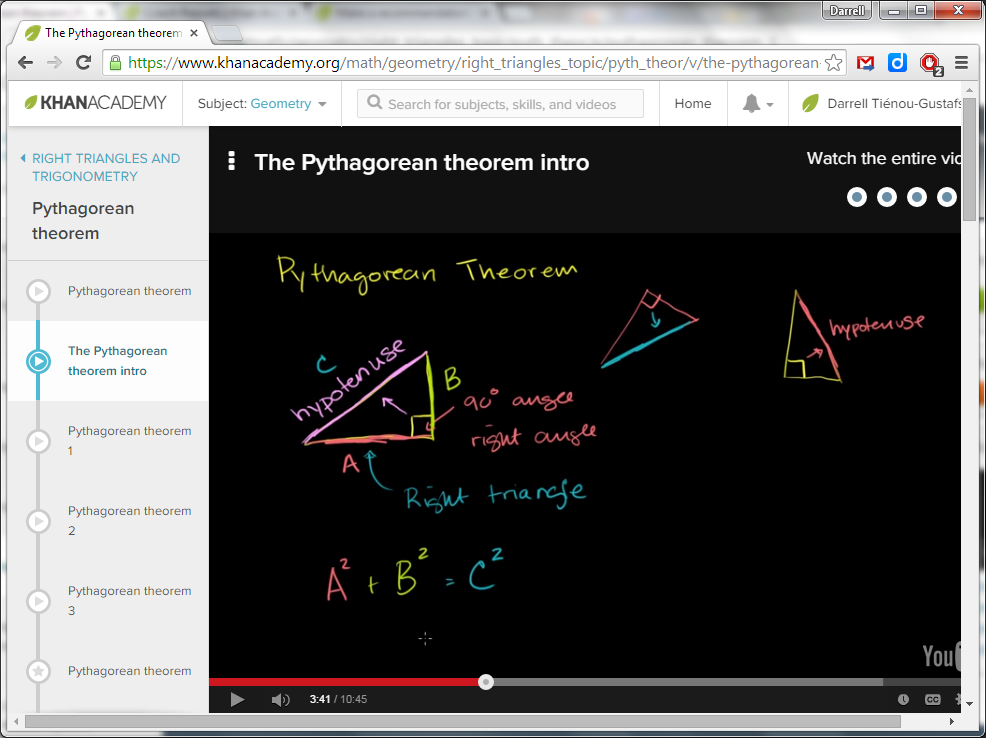
Geometry, Period

Due Date: Wed, 21 Jan 2015

**Geometry**

**Homework**





***Failure to show work on all problems, watch video, or use complete sentences will result in a LaSalle.***

KHAN VIDEO & PRACTICE STEPS:

1. **Go to** [**khanacademy.org**](file:///C:\Users\D.%20Gustafson\Dropbox\Geometry%202014%20-%202015\REG\khanacademy.org), click “Login,” & click “**Google**” to log in – NOT the login on the right. Use your Muchin email. If you can’t log in, click “Forgot Password” and it will be emailed to you.
2. Click the little **bell** to see your assignment.   
   (If you don’t see it, use the **search box** at the top  
   to find “pythagorean theorem**”**)
3. Watch the 10-minute video called   
   “**Pythagorean theorem intro**” *(2nd video, not 1st)*
4. Answer the questions below on the video.
5. Finish 5 problems on **Pythagorean theorem**   
   *(5 total; getting 5-in-a-row correct is not required)*

VIDEO QUESTIONS:

(answer on loose leaf in complete sentences)

1. What is the only kind of triangle that the Pythagorean Theorem works for?
2. How does Mr. Khan say you can identify the hypotenuse?
3. How many sides of the triangle do you have to know in order to use the Pythagorean Theorem?
4. How does Mr. Khan simplify the square root of 108? *(Show the work as he did it.)*

LABEL (on this sheet):

A) Label the following Triangles’ hypotenuse (assume all are right triangles).

B) What side is always the hypotenuse? (explain below)

PROBLEMS (work in your notebook again):

I. Each problem below gives the lenghts of the three sies of a right triangle. STEPS: (A) Draw a triangle, marking the right angle. (B) Label each side with the name (a, b, c) AND the measure. (C) Find the length of the hypotenuse (side c).

(5) sides 12, 16, [c?] (6) sides 7, 24, [c?] (7) sides 4, 6, [c?]

II. Some triangle sides below ARE right triangles, and others are NOT. Show your work to decide if the sides are or a right triangle or not.

(8) sides 7, 12, 16 (9) sides 6, 8, 10 (10) sides 9, 12, 15